



SEQUENCE LISTING

<110> Allen, Danny
Farrar, Gwennyth Jane

<120> Compositions and Methods for Tissue Specific or Inducible Inhibition of Gene Expression

<130> MUR-005

<140> US 10/655,570

<141> 2003-09-04

<150> US 60/408,210

<151> 2002-09-04

<160> 15

<170> PatentIn version 3.1

<210> 1

<211> 196

<212> DNA

<213> Artificial Sequence

<220>

<223> RNAi sequence R2D2egfp

<400> 1

ggctagctag ctctagagga tccgtggttg ctgatgagtc cgtgaggacg aaacggtacc 60

cggtaccgtc caaccactac ctgagcacc cagttcaagag actgggtgct caggtagtgg 120

ttgtcgacgg atcatgatcc gtcctgatga gtccgtgagg acgaaacaac cacgaattca 180

agcttgacct ctcgac 196

<210> 2

<211> 196

<212> DNA

<213> Artificial Sequence

<220>

<223> RNAi sequence R2D2xera

<400> 2

ggctagctag ctctagagga tcccttgccg ctgatgagtc cgtgaggacg aaacggtacc 60

cggtaccgtc cggcaagctg accctgaagt tcttcaagag agaacttcag ggtagccttg 120

ccgtagacgg atcatgatcc gtcctgatga gtccgtgagg acgaaacggc aaggaattca 180

agcttgacct ctcgac 196

<210> 3

<211> 190

<212> DNA

<213> Artificial Sequence

<220>
 <223> RNAi sequence ~~R2D2~~Non

<400> 3
 ggctagctag ctctagagga tcccggagaa ctgatgagtc cgtgaggacg aaacggtacc 60
 cggtaccgtc ttctccgaac gtgtcacgtt tcaagagaac gtgacacgtt cggagaattg 120
 acggatcatg atccgtcctg atgagtcctg gaggacgaaa ttctccggaa ttcaagcttg 180
 acctctcgac 190

<210> 4
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR amplification primer R2D2For

<400> 4
 ggctagctag ctctagagga t 21

<210> 5
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR amplification primer R2D2Rev

<400> 5
 gtcgagaggt caagcttgaa t 21

<210> 6
 <211> 107
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> EGFP targeting construct R2D2xer1

<400> 6
 ggctagctag ctctagagga tcccttgccg ctgatgagtc cgtgaggacg aaacggtacc 60
 cggtaccgtc cggcaagctg accctgaagt tcttcaagag agaactt 107

<210> 7
 <211> 110
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> EGFP targeting construct R2D2xer2

<400> 7
 gtcgagaggt caagcttgaa ttccttgccg tttcgtcctc acggactcat caggacggat 60
 catgatccgt ctacggcaag ctgaccctga agttctctct tgaagaactt 110

<210> 8
 <211> 107
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> EGFP targeting construct R2D2egfp1

<400> 8
 ggctagctag ctctagagga tccgtggttg ctgatgagtc cgtgaggacg aaacgggtacc 60
 cggtaccgtc caaccactac ctgagcaccc agttcaagag actgggt 107

<210> 9
 <211> 110
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> EGFP targeting construct R2D2egfp2

<400> 9
 gtcgagaggt caagcttgaa ttcgtggttg tttcgtcctc acggactcat caggacggat 60
 catgatccgt cgacaaccac tacctgagca cccagtctct tgaactgggt 110

<210> 10
 <211> 104
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Non-targeting construct R2D2non1

<400> 10
 ggctagctag ctctagagga tcccggagaa ctgatgagtc cgtgaggacg aaacgggtacc 60
 cggtaccgtc ttctccgaac gtgtcacgtt tcaagagaac gtga 104

<210> 11
 <211> 107
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Non-targeting construct R2D2non2

<400> 11
 gtcgagaggt caagcttgaa ttccggagaa tttcgtcctc acggactcat caggacggat 60
 catgatccgt caattctccg aacgtgtcac gttctcttga aacgtga 107

<210> 12
 <211> 423
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sequence from the pCDNA3.1 vector containing 5' and 3' cis-acting
 ribozymes with RNAi targeting EGFP

<220>
 <221> misc_feature
 <222> (9)..(11)
 <223> N = A, G, C, T

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> N = A, G, C, T

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> N = A, G, C, T

<220>
 <221> misc_feature
 <222> (256)..(256)
 <223> N = A, G, C, T

<220>
 <221> misc_feature
 <222> (256)..(256)
 <223> N = A, G, C, T

<220>
 <221> misc_feature
 <222> (260)..(260)
 <223> N = A, G, C, T

<220>
 <221> misc_feature
 <222> (417)..(417)
 <223> N = A, G, C, T

<400> 12
 aaattttcnn ncccccaaaa aaaanacctt tttccctagc tctaaaggac ccggagaact 60
 gatgagtccg tgaggacgaa acggtaccg gtaccgtctt ctccgaacgt gtcacgtttc 120
 aagagaacgt gacacgttcg gagaattgac ggatcatgat ccgtcctgat gagtccgtga 180

ggacgaaatt ctccggaatt caagcttaag tttaaaccgc tgatcagcct cgactgtgcc 240
 ttctagtgtgc cagcctctctn ttgtttgccc ctccccctgtg ccttccttga ccctggaagg 300
 tgccactccc actgtccttt cctaataaaa tgaggaaatt gcatcgcatt gtctgagtag 360
 gtgtcattct attctggggg gtgggggtggg gcaggacagc aagggggagg attgggnaag 420
 aca 423

<210> 13
 <211> 446
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sequence from the pcDNA3.1 vector carrying 5' and 3' cis-acting r
 ibozymes and the non-targeting RNAi control sequence

<220>
 <221> misc_feature
 <222> (2)..(3)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (15)..(16)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (19)..(20)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (29)..(31)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (40)..(40)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (42)..(42)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (47)..(47)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (285)..(287)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> N = G, A, T, C

<400> 13
 cnnngnttcag gcccnnacnn aatttttcnn ncncccaan anaaanacc cttttttccc 60
 tagctctaga aggatccgtg ggttgctgat gaagtcgtg aaggacgaaa cggtagccgg 120
 taccgtccaa ccactacctg agcaccagct tcaagagact ggggtgctcag gtagtggttg 180
 tcgacggatc atgatccgtc ctgatgagtc cgtgaggacg aaacaaccac gaattcaagc 240
 ttaagtttaa accgctgac agcctcgact gtgccttcta gttgnnngnc atctgttggt 300
 tgcccctccc ccgtgccttc cttgacctg gaagggtgcca ctcccactgt cttttcctaa 360
 taaaatgagg aaattgcac gcattgtctg aagtaggtgt cattctattc tgggggggtgg 420
 ggtggggcaa ggacagcaag ggggga 446

<210> 14
 <211> 395
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sequence from pcDNA3.1 with the H1 promoter driving expression of
 RNAi targeting EGFP

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> N = G, A, T, C

<220>

<221> misc_feature
 <222> (32)..(32)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (339)..(339)
 <223> N = G, A, T, C

<400> 14
 tccnattacc ctccctaaag ggacaaaagc tnggagctcc accgcggtgg cggccgctct 60
 agaactagtg gatcccccg gctgcaggaa ttcgaacgct gacgttcac aaccgcgtcc 120
 aaggaatcgc gggcccagtg tcactaggcg ggaacaccca gtgcgcgtgc gccctggcag 180
 gaagatggct gtgagggaca ggggagtggc gccctgcaat atttgcatgt cgctatgtgt 240
 tctgggaaat caccataaac gtgaaatgtc tttggatttg ggaatcttat aagttctgta 300
 tgagaccaca gatccccaac cactacctga gcaccagnt caagagactg ggtgctcaag 360
 tagtggtttt tttggaaaac ttatcgatac cgtct 395

<210> 15
 <211> 352
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sequence from the pcDNA3.1 vector carrying sequence for the rat albumin promoter

<220>
 <221> misc_feature
 <222> (17)..(18)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (32)..(32)
 <223> N = G, A, T, C

<220>
 <221> misc_feature
 <222> (270)..(271)
 <223> N = G, A, T, C

<400> 15
 ctggcttcga attatcnct cctataggga gnccaagctg gctcgcgttt aacgggcct 60
 ctagactcga gcggccgctc tagcttcctt agcatgacgt tccacttttt tctaagggtg 120
 agcttacttc tttgatttga tcttttgtga aacttttga aattacccat cttcctaagc 180

ttctgcttct ctcagttttc tgcttgctca ttccattttc cagctgacct gccccctacc 240
aacattgctc cacaagcaca aattcatccn nagaaaataa attctaagtt ttatagttgt 300
ttggatcgca taggtagcta aagaggtggc aaccacaca tccttaggca tg 352